

SLC25A21 / ODC1 Antibody (aa134-183)
Rabbit Polyclonal Antibody
Catalog # ALS15503**Specification**

SLC25A21 / ODC1 Antibody (aa134-183) - Product Information

Application	WB, IHC-P, E
Primary Accession	Q9BOT8
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A E~~N/A

SLC25A21 / ODC1 Antibody (aa134-183) - Additional Information**Gene ID** 89874**Other Names**

Mitochondrial 2-oxodicarboxylate carrier, Solute carrier family 25 member 21, SLC25A21, ODC

Target/Specificity

SLC25A21 Antibody detects endogenous levels of total SLC25A21 protein.

Reconstitution & Storage

Store at -20°C for up to one year.

Precautions

SLC25A21 / ODC1 Antibody (aa134-183) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC25A21 / ODC1 Antibody (aa134-183) - Protein Information**Name** SLC25A21**Synonyms** ODC**Function**

Transports dicarboxylates across the inner membranes of mitochondria by a counter-exchange mechanism (PubMed: [11083877](http://www.uniprot.org/citations/11083877)). Can transport 2-oxoadipate (2-oxohexanedioate), 2-oxoglutarate, adipate (hexanedioate), glutarate, and to a lesser extent, pimelate (heptanedioate), 2-oxopimelate (2-oxoheptanedioate), 2-aminoadipate (2-aminohexanedioate), oxaloacetate, and citrate (PubMed: [11083877](http://www.uniprot.org/citations/11083877)). Plays a central role in catabolism of lysine, hydroxylysine, and tryptophan, by transporting common metabolite intermediates (such as 2-oxoadipate) into the

mitochondria, where it is converted into acetyl-CoA and can enter the citric acid (TCA) cycle (Probable).

Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Tissue Location

Expressed in placenta, gall bladder and colon.

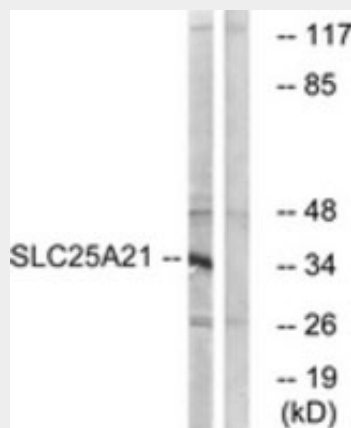
Volume

50 μ l

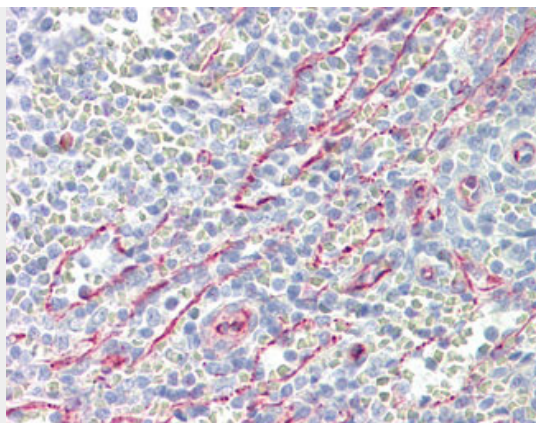
SLC25A21 / ODC1 Antibody (aa134-183) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SLC25A21 / ODC1 Antibody (aa134-183) - Images

Western blot of extracts from HepG2 cells, using SLC25A21 Antibody.



Anti-SLC25A21 / ODC antibody IHC of human spleen.

SLC25A21 / ODC1 Antibody (aa134-183) - Background

Transports C5-C7 oxodicarboxylates across the inner membranes of mitochondria. Can transport 2-oxoadipate, 2-oxoglutarate, adipate, glutarate, and to a lesser extent, pimelate, 2-oxopimelate, 2-aminoadipate, oxaloacetate, and citrate.

SLC25A21 / ODC1 Antibody (aa134-183) - References

Fiermonte G., et al. J. Biol. Chem. 276:8225-8230(2001).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Heilig R., et al. Nature 421:601-607(2003).
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).